

Mounted High-Speed PIN Photodiodes

CVI Melles Griot silicon PIN photodiodes are ideal for low-intensity high-bandwidth applications such as fiber-optic communications and data links, video systems, and industrial sensing.

- Excellent high-frequency response produces rise times as fast as 0.35 nsec with an appropriate transimpedance amplifier.
- Post-mountable, these photodiodes interface directly with CVI Melles Griot snap-on filter mounts.
- Internal batteries eliminate the need for an external power supply.

13 DAH-series mounted high-speed PIN photodiodes

SPECIFICATIONS:
Mounted High-Speed PIN Photodiodes

Spectral Response	350–1100 nm
Bias	−9 Vdc
Battery Type	Three 3-Vdc lithium batteries (included); 9 Vdc total
Termination	50 Ω
Operating Temperature	−10°C to +50°C
Storage Temperature	−35°C to +75°C

Mounted High-Speed PIN Photodiodes[1,2]

Photodiode Diameter (mm)	Rise Time at −9 Vdc (nsec)	NEP[3] at −9 Vdc ($W/Hz^{1/2}$)	Dark Current at −9 Vdc (nA)	Capacitance at −9 Vdc (pF)	Breakdown Voltage (min) at 10 μA (V)	Response at 830 nm (A/W)	Package Diameter	PART NUMBER
0.23	0.35–1.00 max	6.3×104^{15}	0.02–1.00 max	1.0	30	0.35–0.40 max	50 mm	13 DAH 001
0.50	1.00–2.00 max	9.0×104^{15}	0.05–1.00 max	2.5	30	0.35–0.40 max	50 mm	13 DAH 003
1.00	2.50–3.50 max	2.2×104^{14}	0.25–1.00 max	5.5	30	0.35–0.40 max	50 mm	13 DAH 005

[1] *All specifications listed for an ambient temperature of 22°C.*
[2] *A 50-Ω termination is required for mounted 13 DAH series.*
[3] *Noise equivalent power.*